

- 1 What is claimed is:
- 2 1. A circuit for generating negative ions comprising:
- 3 a power indication circuit for displaying power on/off;
- 4 an oscillation circuit including a transformer and an oscillation loop, the transformer
- 5 being configured to generate a high voltage to produce a resonant frequency through
- 6 the oscillation loop, the oscillation loop having a transistor, the transistor having a
- 7 base, a collector and an emitter, the base and the collector of the transistor being
- 8 electrically connected to the transformer;
- 9 an amplifying circuit connected with at least a discharge electrode, the amplifying
- 10 circuit configured to rectify current flowing to the oscillation circuit and discharge
- 11 negative ions through the discharge electrode; and
- 12 a radial frequency eliminating circuit having a capacitance (C4) and a coil (L2), the
- 13 capacitance (C4) being connected with the coil (L2) in parallel, the coil (L2) being
- 14 connected to the emitter of the transistor in series, and the capacitance (C4) being
- 15 electrically connected to the base of the transistor.
- 16 2. The circuit in accordance with claim 1, further comprising a radial frequency filtering
- 17 circuit connecting the power indication circuit with the oscillation circuit, the radial
- 18 frequency filtering circuit having a first capacitance (C1), a second capacitance (C2)
- 19 and a coil (L1).
- 20 3. The circuit in accordance with claim 1, wherein the oscillation circuit has a capacitance
- 21 (C3) connected to the base of the transistor and the transformer.
- 22 4. A circuit for generating negative ions comprising:
- 23 a power indication circuit for displaying power on/off;
- 24 an oscillation circuit having a transformer and an oscillation loop, an output current
- 25 from the power indication circuit flowing to the oscillation circuit, the transformer
- 26 configured to generate a high voltage to produce a resonant frequency through the
- 27 oscillation loop, the oscillation loop having a transistor, the transistor having a base, a

1 collector and an emitter, the base and the collector of the transistor being electrically
2 collected to the transformer;
3 an amplifying circuit connected with at least a discharge electrode, the amplifying
4 circuit configured to rectify current flowing to the oscillation circuit and discharge
5 negative ions through the discharge electrode; and
6 a radial frequency filtering circuit having a first capacitance, a second capacitance
7 and a first coil, the radial frequency filtering circuit connecting the power indication
8 circuit with the oscillation circuit.

9 5. The circuit in accordance with claim 4, wherein the oscillation circuit has a third
10 capacitance electrically connected to the base of the transistor and the transformer.

11 6. A negative ion generator comprising:
12 a circuit for generating negative ions comprising:
13 a power indication circuit for displaying power on/off;
14 an oscillation circuit having a transformer and an oscillation loop, an output
15 current from the power indication circuit flowing to the oscillation circuit, the
16 transformer configured to generate a high voltage to produce a resonant frequency
17 through the oscillation loop, the oscillation loop having a transistor, the transistor
18 having a base, a collector and an emitter, the base and the collector of the
19 transistor being electrically collected to the transformer;
20 an amplifying circuit connected with at least a discharge electrode, the amplifying
21 circuit configured to rectify current flowing to the oscillation circuit and discharge
22 negative ions through the discharge electrode; and
23 a radial frequency eliminating circuit having a capacitance (C4) and a coil (L2),
24 the capacitance (C4) being connected to the coil (L2) in parallel, the coil (L2)
25 being connected to the emitter of the transistor in series, and the capacitance (C4)
26 being electrically connected to the base of the transistor;
27 a housing; and

- 1 a shelter inside the shelter for wrapping the transformer, the transistor and the coil
2 (L2) of the radial frequency eliminating circuit.
- 3 7. The negative ion generator in accordance with claim 6, further comprising a radial
4 frequency filtering circuit connecting the power indication circuit with the oscillation
5 circuit, the radial frequency filtering circuit having a first capacitance (C1), a second
6 capacitance (C2) and a coil (L1).
- 7 8. The negative ion generator in accordance with claim 6, wherein the oscillation circuit
8 has a capacitance (C3) connected to the base of the transistor and the transformer.
- 9 9. The negative ion generator in accordance with claim 6, wherein the shelter is made of
10 metal.

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